ODDESY
Beyond CASE

A single, integrated, client-server based or stand alone application development and runtime platform in an open distributed environment.

Lohara Software Systems, Inc.
Integrated Software for Application Development

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Over the past 30 or so years in which the computer has played an integral part of business automation and productivity, there have been quantum leaps in technology and programming methodologies. With change being the constant, business today is moving away from the hierarchical form of management and information flow and moving to an information based management structure.

What this means in practical terms is that the salesman in the field will be able to have the information such as pricing , inventory, and delivery data necessary to complete a transaction with the customer immediately. Then be able to enter the order on the spot to ensure timely delivery to the customer. The old methodology usually meant that queries and information had to pass through several other departments or branches of the hierarchical tree in order to confirm such data as inventory or delivery information.

Although the information based organization is clearly thought to be the superior method of handling the business problems of cost reduction, increased productivity, and better use of the existing technology base. The demands on system design, database management, and software programming methodologies are the areas which must undergo change to support this organization.

The Benefits of ODDESY

The movement towards this information based management structure built on the existing info structure is the very reason that the software products of Lohara Software Systems have been designed, developed and delivered. The tool set consists of an Object Oriented Analysis and Design front-end, Code generation, Database gateways to existing RDBMs, and Network Management. This integration of tools produces application software which can exhibit the following characteristics:

- **Improved productivity of systems development process**

- **Significantly reduces the elapsed time to develop an application**

- **Facilitates the development of a wide range of proprietary applications**

- **These applications are more marketable because they are data- base independent, communications independent, hardware independent, and user interface independent**

- **The life cycle of the application is increased because of the ease of modification and the underlying state-of-the-art technology and architecture being used**

- **ODDESY uses all of the currently recognized standards for communications, databases, and others**

Developing Applications with ODDESY

DECLARE YOUR INDEPENDENCE FROM YOUR DATABASE AND COMMUNICATION VENDORS TOOLS. ODDESY exceeds the scope of most CASE tools because of the integration of the entire development cycle, from Analysis and Design right through to Maintenance. Additionally, ODDESY has the ability to distribute the application over a heterogeneous network through the use of the integrated Networking Module. No other tool on the market today can deliver all of these components with one single product. Attributes of ODDESY developed applications are:

- **Database Independent**
- **Front End Independent**
- **Communication Independent**
- **Hardware Independent**

What Can Lohara Software Do For You

Lohara Software Systems, is a California based corporation which builds application development tools used to solve the real world problems such as: increasing programmer productivity, seamless architecture in downsizing and rightsizing, and co-existence with existing hardware and software. Current customers are comprised of end-users, ISVs, VARs, Professional Services Companies, and Consultants, Lohara provides a full range of service and support:

- **Educational services in use of tools and in Object Oriented Programming**
- **Application Development tools**

- **Contract Programming at very competitive rates**
- **Consulting in Design of new applications or re-design of old ones**

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Object Oriented Environment	Client–Server/ Stand Alone Environment	Data Base Independent	Communications Independent	Hardware Independent
Object Oriented Design and Development System	**Integrated Application Development Platform**	**Data Base Servers and Utilities**	**Communications Network Management and Integration**	**Hardware and Software Integration**

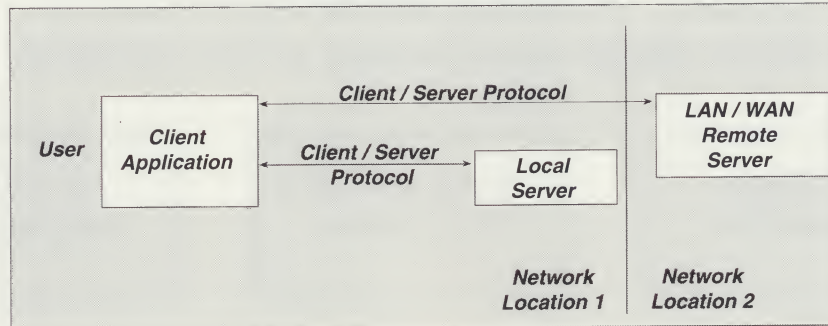| Object Oriented Design and Development System	Integrated Application Development Platform	Data Base Servers and Utilities	Communications Network Management and Integration	Hardware and Software Integration
• Interactive Designer Workbench • Object Hierarchy Management • Encapsulation • Inheritance • Message Passing • Structure Management • Behavior Management (Methods) • 4/5 GL Language (ODDESYL) • Interpretive • "C" Code Generation • Class Libraries Management • Specifications and Schedule Management • Other Utilities • Interactive Forms/ Report Designer	• Application Development System in "C" • Application Management • User Interface Management Language • Data Dictionary Management • Interactive Form, Menus, Report Designer • Hierarchical Menu Designer • Function Management • Source Management • Make (Executable Code Generation) • Execute and Test Environment • Release and Distribution Management • Installation Script • Packaging and Control • Version Management • Backup and Restore Control • File Management	• SQL Relational Data Base Servers • INFORMIX • ORACLE • INGRES • SYBASE • EMPRESS • Query By Example • SQL Report Writer • APIs for Data Base Access in Open Distributed Environment • Default Input Form Generation • Other Data Base Interfaces on Request	• TCP/IP • X.PC • X.25 • OSI • SNA • Application Communication Interface • Network Table and Application Management • Access Security Control • Auto Software Update • Local or Remote Server Status Monitoring • Local or Remote User Status Monitoring • Backup and Restore over Network • Application Installation Management • System Resources Monitoring	• PC 386/486 • Risc System/6000 IBM • Sun Sparc • Pyramid • SCO UNIX/XENIX • UNIX VR4 • DOS (Client Mode) • Windows 3.0 Support • OS/2 PM • X Windows Support • X Windows Motif Support • Standard Comm Equipment Interface • Image Scanner Interface • Auto CAD Interface • Digitized Picture Interface • Application Level Interface • Other Hardware and Software Interface on Request

ODDESY
Beyond CASE

Client / Server Model
Basic Architectural Structure

User

Client / Server Protocol

Client Application

Client / Server Protocol

Local Server

LAN / WAN Remote Server

Network Location 1

Network Location 2

Connectivity (Heterogeneous)
Typical Network Topology

Location A

Location B

To other networks

To other networks

Dumb Terminal

PC-XT, AT

Dumb Terminal

286/386 PC UNIX

Local or Remote Host

Leased

X.25

Local or Remote Host

Gateway

802.4

CAD

Process Control

Manufacturing Automation

Bridge

Gateway

PC LAN Token Ring

PC

PC

PC

Gateway

TCP/IP

Bridge

Bridge

TCP/IP

Gateway

Bridge

PC

PC

PC

PC

PC

PC

PC

PC

PC

PC

PC

PC